

# AFCTN Test Report 94-067

## **AFCTB-ID 94-044**



**TMSS Parsing Test** 

MIL-L-8031E, Amendment One

List of Applicable Publications

**Document Type Definition** 

**MAXIMA Corporation** 

DISA Contract #DCA100-93-D-0065

**Quick Short Test Report** 

16 May 1994



Prepared for Electronic Systems Center Air Force CALS Program Office HQ ESC/AV-2 4027 Colonel Glenn Hwy Suite 300 Dayton OH 45431-1672 DISTRIBUTION STATEMENT A

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TMSS Parsing Test
MIL-L-8031E, Amendment One
List of Applicable Publications
Document Type Definition
For:
MAXIMA Corporation
DISA Contract #DCA100-93-D-0065

Quick Short Test Report 16 May 1994

**Prepared By** 

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## **Air Force CALS Test Bed**

## Notification of Test Results

16 May 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

## **MAXIMA** Corporation

Identified as follows:

Title:

MIL-L-8031E, Amendment One

List of Applicable Publications DTD Parsing Test

Program:

DISA

Program Office:

DISA

Contract No.:

DCA100-93-D-0065

OSTR No.:

**AFCTB-ID 94-044** 

Received on the following media:

3.5" Diskette

The results of the AFCTB Quick Short Test evaluation are as follows:

MIL-STD-1840A Media Format:

N/A

MIL-D-28000A IGES:

N/A

MIL-M-28001A SGML:

Pass

MIL-R-28002A Raster:

N/A

MIL-D-28003 CGM:

N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

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#### 1. Introduction

## 1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

## 1.2 Purpose

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax, using several commercial and public domain SGML parsers, prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

#### 2. Test Parameters

Test Plan:

AFCTB 94-044

Date of

Evaluation:

16 May 1994

Evaluator:

George Elwood

Air Force CALS Test Bed

DET 2 HQ ESC/AV-2P 4027 Colonel Glenn Hwy

Suite 300

Dayton OH 45431-1672

Data

Originator:

Kay Hill

MAXIMA Corporation 2372 Lakeview Drive Beavercreek OH 45431

(513) 427-5888

Data

Description:

Technical Manual Test

1 DTD

Data

Source System:

Text/SGML

SOFTWARE

Unknown

Evaluation Tools Used:

MIL-M-28001 (SGML)

PC 486/50

Exoterica XGMLNormalizer v1.2e3.2 Exoterica Validator v2.2 exl SoftQuad Author/Editor v2.1 McAfee & McAdam Sema Mark-it v2.3

Public Domain sgmls v1.1

Standards

Tested:

MIL-M-28001A

## **3. 1840A Analysis**

## 3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB), and it was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A files. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

## 4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]>" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-L-8031E, Amendment one, List of Applicable Publications, called for a companion MIL-M-38784C DTD. MIL-M-38784C, Amendment three DTD, delivered on the same diskette as the DTD to be evaluated was used. This DTD was used without change except to insert the location of the ISO character set files.

<!-- MIL-L-8031E DTD -->

D031EA0.A1 --> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

- Note 1. Entity parameters defined more than once is a vaild SGML construct. The warnings in this analysis do not indicate any problems.
- Note 2. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

#### 4.1 Exoterica Validator

-->

The DTD file was evaluated using the Exoterica Validator exl parser. The basic DTD was modified by placing the concrete syntax file and "<!DOCTYPE doc [" at the start, and the "]>" at the end. The parser reported 40 errors which related to the missing instance and are not considered errors for this analysis.

The parser reported 36 warnings of two types. The first type was a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
    used in "\xgml\9444.dtd", line 1:
    A parameter entity name has been declared more than once.
    The entity is "%frnt".
    <!ENTITY % frnt "(idinfo, warnpage?, chginssht?, lep, verstat?,
chgrec?, co</pre>
```

The second type of warnings related to elements defined but not used in any content model. See Note 2 above.

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "ADDRESS".

#### 4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica XGMLNormalizer parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start, and "]>" to the end of the file. No errors or warnings were issued by this utility.

#### 4.3 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's Sema Mark-it v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start, and "]>" to the end of the file. The base line D784CB0.A3 file was used. The only change made to this file was to save it using UNIX format to remove the DOS end of file character. One error was reported and this relates to a missing instance. This is not considered an error for this report.

## 4.4 Public Domain sgmls

The DTD file was evaluated using the Public Domain sgmls parser version 1.1. The file was modified by adding the "<!DOCTYPE doc [" to the start, and "]>" to the end of the file as stated in the comments in the DTD. The basic 38784C.A3 file was used as the point to file. This file was modified by removing the start and end statements. This DTD remained modified to point to the ISO character sets. Two warnings were reported by the parser. Both were duplicate definitions. See Note 1 above.

The following is the command line used to parse the DTD.

C:\EN450>sgmls concrete.syn 9444.dtd -f9444.log -c9444.cap -s -u -r -l -g -d -p -e

### 4.5 SoftQuad Author/Editor

The DTD file was evaluated using SoftQuad's Author/Editor parser. The DTD was modified to point to the previously parsed basic 38784C.A3 DTD. This file had been set to point to the ISO character set. One error was reported during this operation. This product reported an ambiguous content model in the subfig element in the basic 38784C. DTD. The tag is shown below.

Error in Document Type Declaration at offset 2067 of the input stream, on line 1 of the document: Ambiguous content model.

An instance of element GRAPHIC could simultaneously match two or more tokens in the content model.

Error occurred in the content of parameter entity "m38784c".

SoftQuad has identified this as an error in their product which will be corrected in the next release of their software.

## 5. Conclusions and Recommendations

The file D031EA0.A1, MIL-L-8031E, Amendment One DTD, conforms to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate any syntactical variances, nor indicate any problem that would invalidate the effective application of this DTD.

## 6. Appendix A - Detailed SGML Analysis

#### 6.1 Exoterica Validator

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
     used in "\xgml\9444.dtd", line 1:
  A parameter entity name has been declared more than once.
  The entity is "%frnt".
   <!ENTITY % frnt "(idinfo, warnpage?, chginssht?, lep, verstat?,
chgrec?, co
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
     used in "\xgml\9444.dtd", line 1:
  A parameter entity name has been declared more than once.
  The entity is "%bodyele".
   <!ENTITY % bodyele "(chapter, chapter+, ddchapter?)" >
<!ENTITY % service
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "ADDRESS".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "APPENDIX".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "BRK".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "CHAPTER".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "CHGINSSHT".
```

-->

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
 An element is not allowed in the document instance because it does not
 appear in any accessible content model or it is completely excluded.
 The element is "CHGLIST".
-->
<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:</pre>

An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.

The element is "CHGREC".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDCHAPTER".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDDESC".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDINDEX".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDINTRO".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDLIST".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DDSHEET".

<!-- \*\*Warning\*\* in "\xgml\9444.dtd", line 1:
An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "DOC".

```
<!-- **Warning** in "\xqml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DOCPART".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
  The element is "FOLDOUT".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
  The element is "FOLDSECT".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "GLOSSARY".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
  The element is "ILLUSLIST".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "INDEX".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "INSERTPG".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "INTRO".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
   An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
   The element is "PGBRK".
```

```
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PGNO".
<!-- **Warning** in "\xqml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PRECAUT".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PREFACE".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REAR".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REMOVEPG".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SAFESUM".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SECTION".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
  The element is "SHORTTITLE".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
   appear in any accessible content model or it is completely excluded.
  The element is "TABLELIST".
-->
```

```
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "VOLUME".
<!-- **Warning** in "\xgml\9444.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "WARNPAGE".
-->
<!-- Capacity points/limits:
      TOTALCAP =107807/200000
      ENTCAP =12768/200000
     ENTCHCAP =11205/70000
     ELEMCAP =4960/70000
      GRPCAP =25824/70000
     EXGRPCAP =704/70000
     EXNMCAP = 1184/70000
     ATTCAP =33600/200000
     ATTCHCAP =890/70000
     AVGRPCAP =16416/70000
      NOTCAP = 96/70000
      NOTCHCAP =160/70000
      IDCAP =0/70000
      IDREFCAP = 0/70000
     MAPCAP = 0/70000
     LKSETCAP =0/70000
     LKNMCAP =0/70000
-->
<><< ERRORS FROM THIS POINT ON RELATE TO NO DOCUMENT INSTANCE AND ARE NOT CONSIDERED
FOR THIS REPORT >>>>
<!-- **Error** in "\xgml\9444.dtd", line 1:
   The document instance must consist of at least one tag or data character.
  The following element can start: "DOCLOAPS".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   The start tag of an element that has one or more required attributes must
  not be omitted.
  Attribute "DOCID" of element "DOCLOAPS" is REQUIRED.
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
   omitted.
   The element is "FRONT".
-->
```

```
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "IDINFO".
-->
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TMIDNO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "DOCNO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "DOCTYPE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PRTITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "PRTITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An element must not end before its content model is completely satisfied.
  The element with unsatisfied content is "PRTITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   A start tag with a start tag minimization of minus ("-") must not be
   omitted.
   The element is "DISCL".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   The start tag of an element that has one or more required attributes must
   not be omitted.
  Attribute "TYPE" of element "DISTRIB" is REQUIRED.
<!-- **Error** in "\xgml\9444.dtd", line 1:
   A start tag with a start tag minimization of minus ("-") must not be
   omitted.
   The element is "AUTHNOT".
-->
```

```
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PUBDATE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "IDINFO".
-->
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "LEP".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "ORIGDATE".
<!-- **Error** in "\xqml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
   The element is "LEP".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  The start tag of an element with CDATA, RCDATA or EMPTY content must not be
   omitted.
   The element is "CONTENTS".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   A start tag with a start tag minimization of minus ("-") must not be
   omitted.
  The element is "FOREWORD".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
   omitted.
   The element is "PARAO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   A start tag with a start tag minimization of minus ("-") must not be
   omitted.
   The element is "TITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
   An end tag that has been declared inomissible ("-") must not be omitted.
   The element is "FOREWORD".
-->
```

```
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "FRONT".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "BODY".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "LOAPCHAP1".
<!-- **Error** in "\xqml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "MAINSERS".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "MAINSERS".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An element must not end before its content model is completely satisfied.
  The element with unsatisfied content is "MAINSERS".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "LOAPCHAP1".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  The element is "LOAPCHAP2".
```

```
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TITLE".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PARTNO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TMIDNO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "DOCNO".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "LOAPCHAP2".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
   The element is "BODY".
<!-- **Error** in "\xgml\9444.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
   The element is "DOCLOAPS".
-->
<!-- Capacity points/limits:
      TOTALCAP =107807/200000
      ENTCAP =12768/200000
      ENTCHCAP =11205/70000
      ELEMCAP =4960/70000
      GRPCAP = 25824/70000
      EXGRPCAP = 704/70000
      EXNMCAP = 1184/70000
      ATTCAP =33600/200000
      ATTCHCAP =890/70000
      AVGRPCAP =16416/70000
      NOTCAP =96/70000
      NOTCHCAP =160/70000
              =0/70000
      IDCAP
      IDREFCAP = 0/70000
      MAPCAP = 0/70000
```

```
LKSETCAP =0/70000

LKNMCAP =0/70000

-->

<!-- 40 errors and 36 warnings reported. -->
```

#### 6.2 Exoterica XGMLNormalizer Parser

No reported errors or warnings.

## 6.3 Public Domain sgmls Log

```
sgmls: In file included at 9444.dtd, line 37:
       Warning at c:\sgmlpub\784.dtd, line 110 in declaration parameter 4:
       Duplicate specification occurred for "%frnt"; duplicate ignored
sgmls: In file included at 9444.dtd, line 37:
       Warning at c:\sgmlpub\784.dtd, line 166 in declaration parameter 4:
       Duplicate specification occurred for "%bodyele"; duplicate ignored
TOTALCAP 107177
ENTCAP 12768
ENTCHCAP 10540
ELEMCAP 4960
GRPCAP 25824
EXGRPCAP 736
EXNMCAP 1184
ATTCAP 33600
ATTCHCAP 890
AVGRPCAP 16416
NOTCAP 96
NOTCHCAP 163
IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCAP 0
```

## 6.4 Sema Mark-it Log

```
<!--*** file:C:\XGML\9444.DTD line:148 pos:4630 Document entity ended illegally (or illegal end of entity in the main document)-->
```

### 6.5 SoftQuad Author/Editor Log

C:\USR\SQPS\BIN>mkrls -a -S cals.dec 9444.dtd DOS/4GW Protected Mode Run-time Version 1.6 Copyright (c) Rational Systems, Inc. 1990-1992 Compiling 9444.dtd into 9444.rls.

Error in Document Type Declaration at offset 1105 of the input stream, on line 1 of the document: Ambiguous content model. An instance of element FIGTABLE could simultaneously match two or more tokens in the content model. Error occured in the content of parameter entity "m38784c".

Below is the area in the DTD that was addressed.